ORDER NO. GAD8803040C1
A1

Service Manual

Radio Cassette

Stereo Radio Cassette Recorder

RX-SR29

Color

(K).....Black Type

Area

Color	Area
(K)	[M].....U.S.A.
(K)	[MC].....Canada.

RX-SR39 MECHANISM SERIES

■ SPECIFICATIONS

General:

Power Requirement:	Battery; 3V(two UM-3,"AA" size batteries) AC; with optional Panasonic AC Adaptor RD-9443HA
Power Output:	48mW(24mWx2) ... RMS(max.)
Input;	DC IN;3V(mini jack) Ø2.5 EXT stereo Mic.0.25mV/600Ω Ø3.5
Output;	Headphones;32Ω Ø3.5
Dimensions:	3-3/8"(W) x 4-7/8"(H) x 1-1/2"(D) (85.7 x 124 x 37.5)mm
Weight:	7.8oz(220g) without batteries

Radio Section:

Radio Frequency Range:	FM; 88~108MHz AM; 525~1610kHz
Intermediate Frequency:	FM; 10.7MHz AM; 455kHz
Sensitivity:	FM; 2μV/1.25mW output (-3dB Limit Sens) AM; 142μV/m/0.5mW output

Tape Section:

Frequency Response:	150~8000Hz
Recording System:	AC bias,Magnet erase
Tape Speed:	1-7/8ips(4.8cm/s)
Track System:	4-track 2-channel stereo
Motor:	Electrical governor motor

Weights and dimensions shown are approximate.
Design and specifications are subject to change without notice.

Panasonic

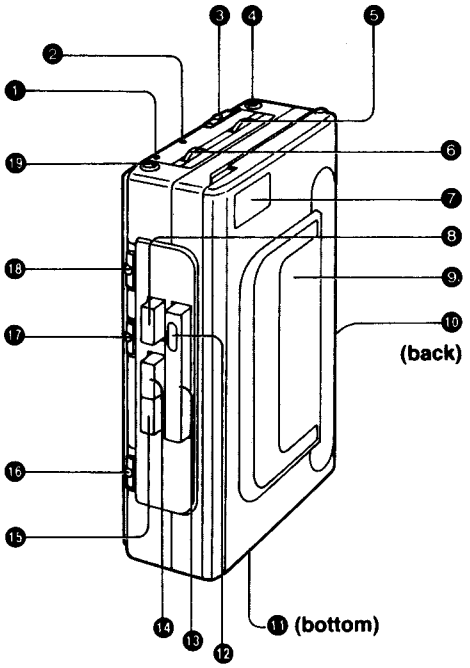
Matsushita Services Company
50 Meadowland Parkway,
Secaucus, New Jersey 07094

Panasonic Hawaii, Inc.
99-859, Iwaiwa Street
P.O. Box 774
Honolulu, Hawaii 96808-0774

Matsushita Electric of Canada Limited
5770 Ambler Drive, Mississauga,
Ontario, L4W 2T3

Panasonic Sales Company, Division of Matsushita Electric of Puerto Rico, Inc.
Ave.65 De Infanteria,Km.9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

LOCATION OF CONTROLS AND COMPONENTS

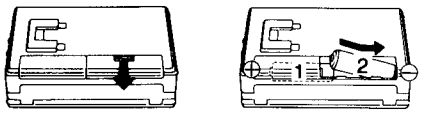


❶ **Power/Battery Check Indicator (POWER/BATT)**
❷ **FM Stereo Indicator (FM ST)**
❸ **Band/FM Sensitivity Selector (BAND/FM SENS)**
❹ **Headphones Jack (∩) 32Ω φ3.5**
❺ **Tuning Control (TUNING)**
❻ **Volume Control (VOLUME)**
❼ **Built-in Microphone (MIC)**
❽ **Stop Button (■ STOP)**
❾ **Cassette Compartment**
❿ **Battery Compartment**
⓫ **DC Input Jack (DC IN 3 V ⊖-⊙-⊕) φ2.5**
⓬ **Record Button (● REC)**
⓭ **Playback Button (▼ PLAY)**
⓮ **Rewind/Review Button (▲ REW/REV)**
⓯ **Fast Forward/Cue Button (▼ FF/CUE)**
⓰ **Beat Proof Switch (B.P)**
⓱ **Function Selector**
⓲ **Pause Switch (PAUSE)**
⓳ **Stereo Microphone Jack (ST MIC) 0.25mV/600Ω , φ3.5**

POWER SOURCE

■ Battery Operation

1. Open the Battery Compartment cover as shown in the figure.
2. Insert 2 "AA" size (Panasonic UM-3 or equivalent) batteries into the Battery Compartment, making sure that the batteries are installed in the specified numerical order and that the proper polarities are maintained.



3. Replace the compartment cover.

•Battery removal
Press battery "2" toward the ⊖ battery terminal and remove it.

Notes:
- •Batteries installed with incorrect polarities may leak and damage this unit.
- •Do not mix batteries (old and new) or types (carbon and alkaline).

■ AC Power Operation

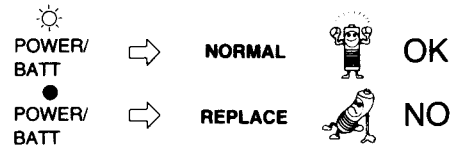
1. Insert the plug, at the end of the AC adaptor cord, into the DC Input Jack.
2. Plug the AC adaptor unit into your household AC power outlet.

Note:
To operate on battery power, unplug the AC adaptor unit from the household AC power outlet and the DC Input Jack on the unit.

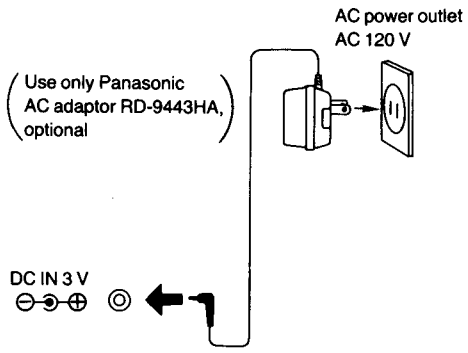
BATTERY SERVICE LIFE

UM-3 (AA-size) Batteries
Approx. 3.2 hours of playback (EIAJ) with volume set at 3/4 position
Approx. 2.2 hours of recording (EIAJ)
The above battery service life is measured according to the conditions set forth by EIAJ (Electronic Industries Association of Japan). As the battery service life varies with the method of operation and envirommental conditions, use these values as reference.

•Battery Life
Battery condition can be checked by the Power/Battery Check Indicator.



Note:
If the set is not used for a long period of time or is used only from an AC power source, remove all the batteries to prevent potential damage due to possible battery leakage.



DISASSEMBLY INSTRUCTIONS

Ⅰ. Remove the Rear Cabinet

1. Remove the battery cover (A). (Shown in Fig. 1)
2. Remove the screw (B) (2×25)mm×3. (Shown in Fig. 1)
3. Remove the screw (C) (2×5)mm×1. (Shown in Fig. 1)
4. Remove the solder point (D)×1. (Shown in Fig. 2)

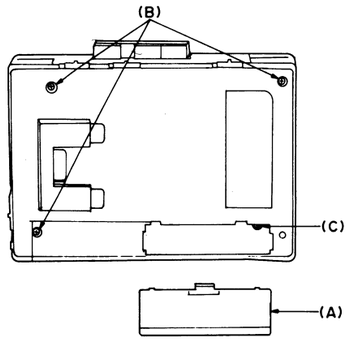


Fig. 1

Ⅲ. Remove the Main P.C.B.

1. Remove the microphone in the direction of arrow ①. (Shown in Fig. 3)
2. Remove the screw (G) (2×4)mm×1. (Shown in Fig. 4)
3. Remove the boss in the direction of arrow ②. (Shown in Fig. 3)
4. Push the rib in the direction of arrow ③. (Shown in Fig. 4)

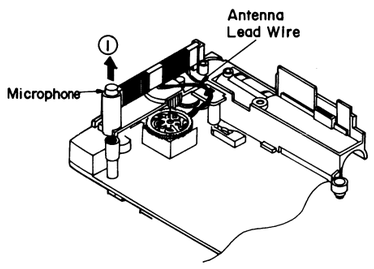


Fig. 3

Note: When removing the main PCB, take care not to cut or break the antenna lead wire.

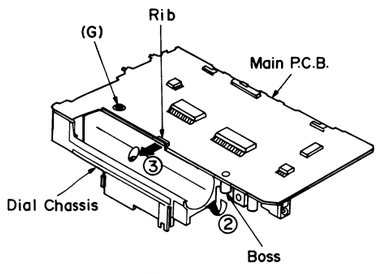


Fig. 4

Ⅱ. Remove the Main P.C.B & Dial Chassis

1. Remove the solder point (E)×7. (Shown in Fig. 2)
2. Remove the screw (F)×1. (Shown in Fig. 2)

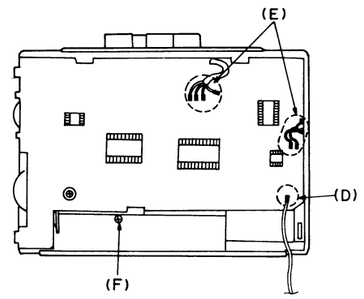


Fig. 2

Ⅳ. Remove the Mechanism Ass'y

- Remove the screw (H) (2×8)mm×2. (Shown in Fig. 5)

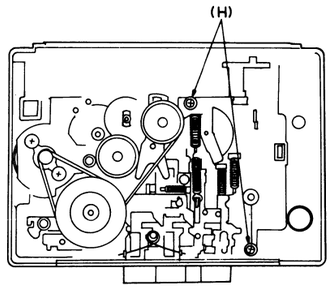


Fig. 5

Ⅴ. Remove the Erase safety Lever

- Push the rib in the direction of arrow ④. (Shown in Fig. 6)

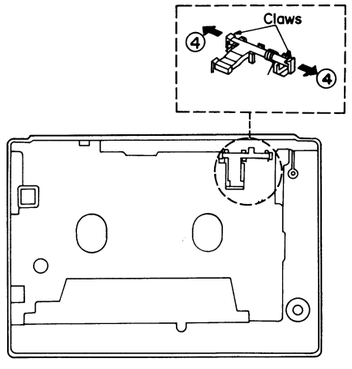


Fig. 6

Ⅶ. Remove the Cassette Compartment

1. Remove the screw (I) (2×10)mm×2. (Shown in Fig. 7)

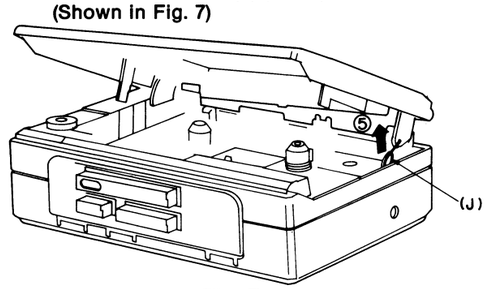


Fig. 7

Ⅷ. Remove the Dial Pointer

- Remove the dial Pointer in the direction of arrow ⑥. (Shown in Fig. 9)

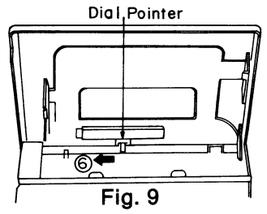


Fig. 9

■ How to Replace the Cassette Compartment Lid

1. Mount the dial pointer on the cassette compartment lid (see Fig. 12).
2. Place the lid on the unit in the order indicated by arrows (1), (2), and (3), (see Fig. 12).
3. Engage the dial pointer with the dial pointer rack (see Fig. 13).
4. Secure the compartment lid to the unit with two screws (2×10mm), (see Fig. 13).

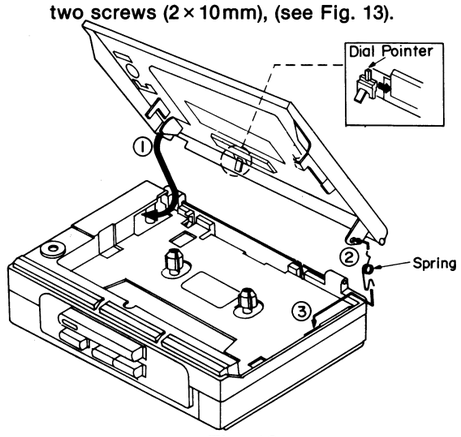


Fig. 12

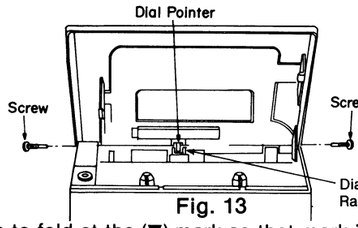


Fig. 13

▼ Be sure to fold at the (▼) mark so that mark is on the outside.

2. Remove the spring (J) in the direction of arrow ⑤. (Shown in Fig. 8)

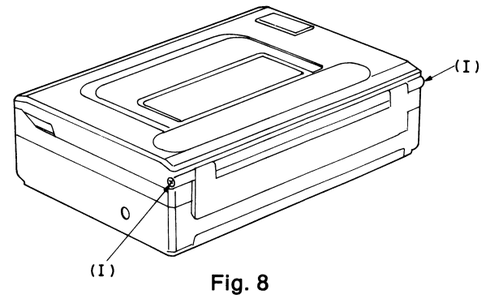


Fig. 8

■ Dial Setting Point

1. Turn the drum gear fully in the direction of the arrow ⑦. (Shown in Fig. 10)
2. Set the dial pointer to mark. (Shown in Fig. 11)
3. Attach the dial chassis to the main P.C.B.

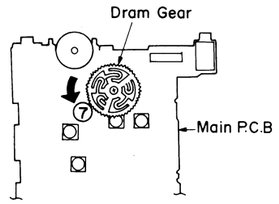


Fig. 10

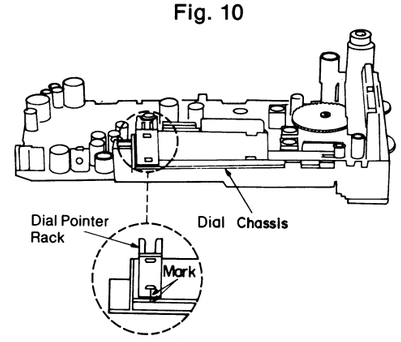


Fig. 11

■ Caution on assembly of Rear Cabinet

Line up each switch with its respective switch boss, and securely attach the rear cabinet. (Shown in Fig. 14)

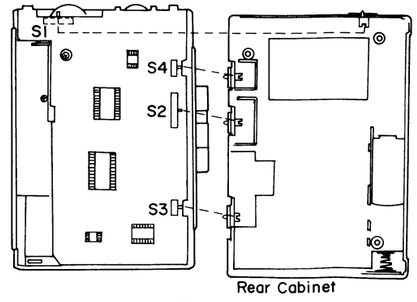
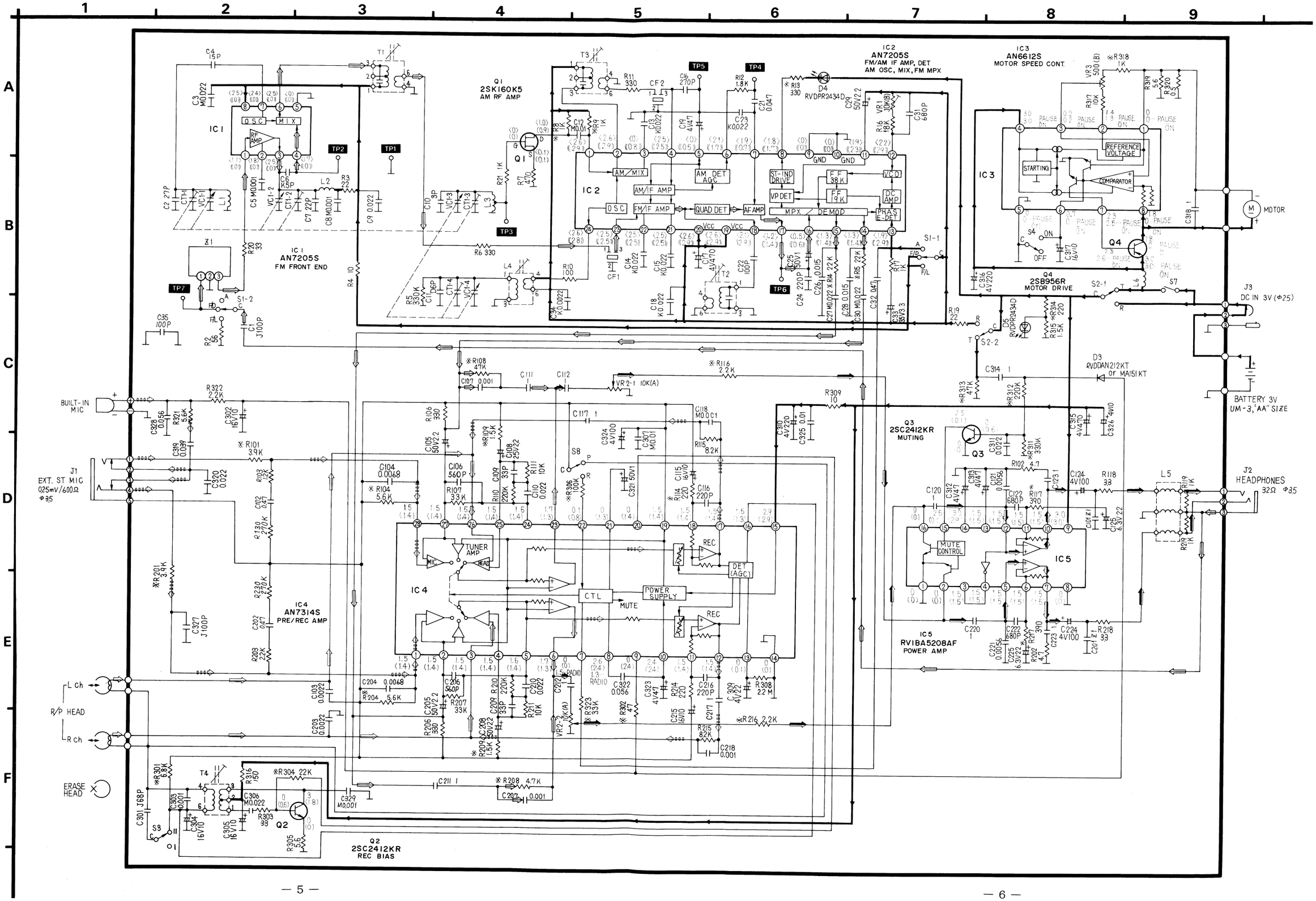
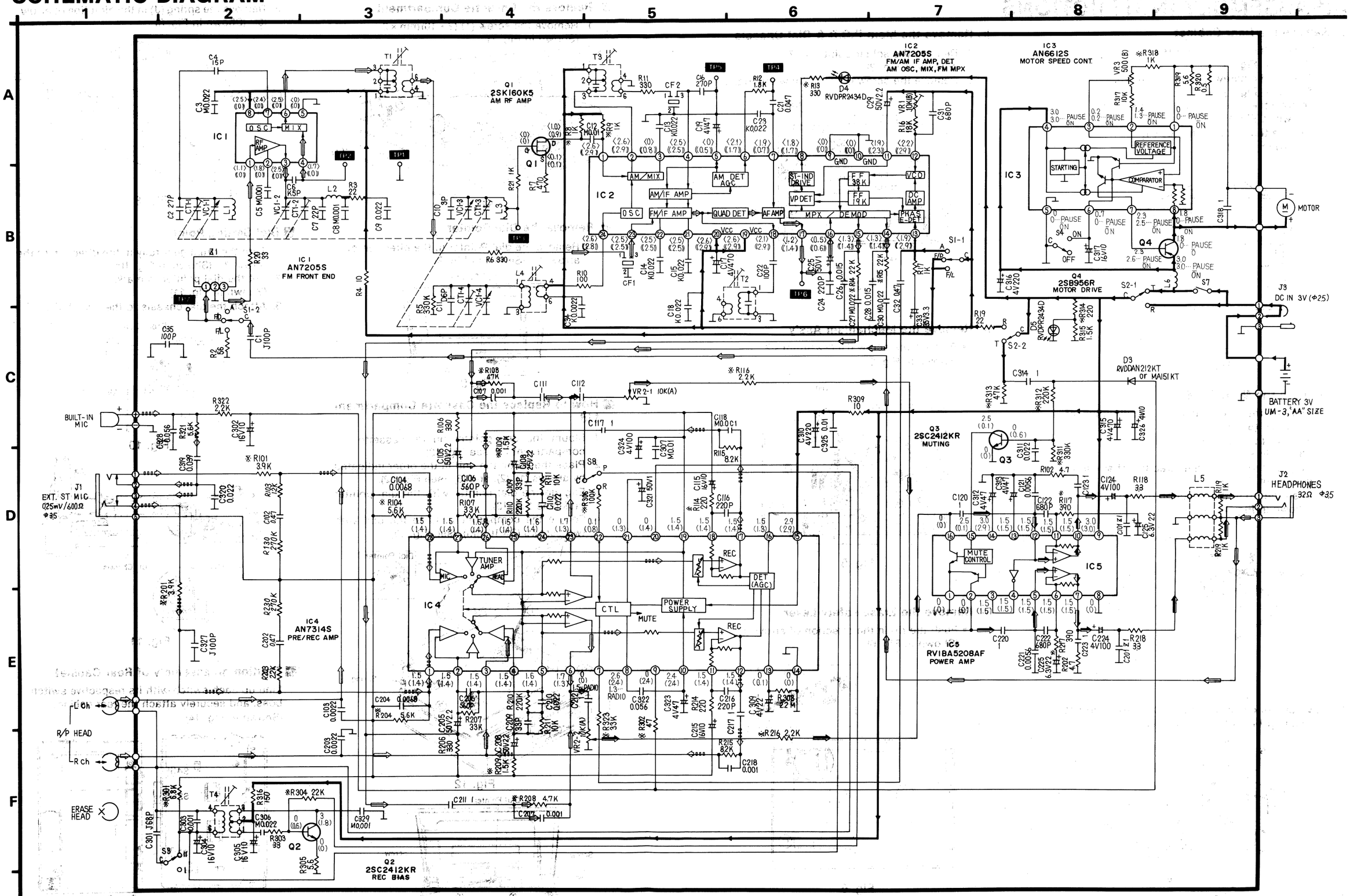


Fig. 14

SCHEMATIC DIAGRAM



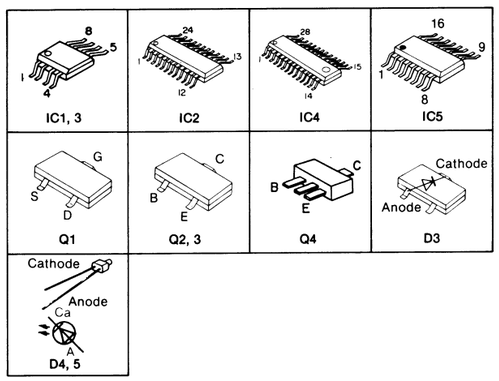
SCHEMATIC DIAGRAM



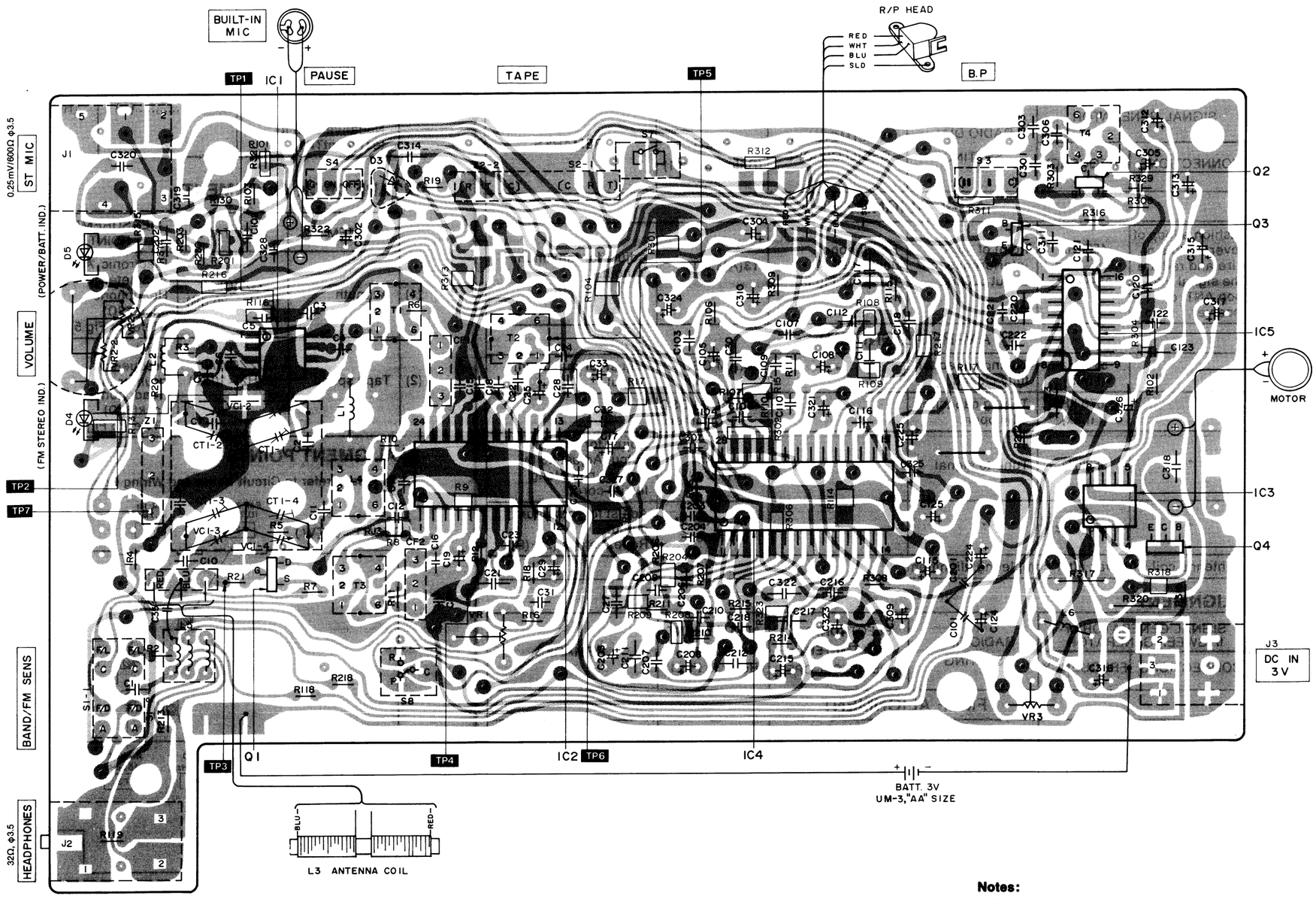
CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM

Notes:

1) S1-1, S1-2 : Band Selector Switch in "FM Mono" Position. (A... AM, F/D... FM/DX, F/L... FM/Local)
2) S2-1, S2-2 : Function Selector Switch in "Tape" Position. (R... Radio, T... Tape)
3) S3 : Beat Proof Switch in "Ⅱ" Position.
4) S4 : Pause ON/OFF Switch in "OFF" Position.
5) S7 : Tape Motor Switch in "OFF" Position.
6) S8 : Record/Playback Switch in "PLAYBACK" position.
7) VR1 : FM MPX VCO Frequency adjustment VR.
8) VR3 : Motor Speed Control VR.
9) VR2 : Volume Control VR.
10) The mark (■) shows test point e.g. TP1 = test point 1.
11) DC voltage measurement are taken with electronics voltmeter from negative terminal of battery.
(( ))...AM < >...FM ( )...Record
No mark...Playback/Radio
12) Battery current: No signal (Radio)..... 42mA (VR min)
(Tape)..... 160mA (VR min)
Maximum output (radio).. 67mA (VR max)
Maximum output (tape).... 180mA (VR max)
Recording 197mA
13) • **This schematic diagram may be modified at any time with the development of new technology.**



: +Ⓑ Voltage Line
: Radio (FM) Signal Line
: Tape (Playback) Signal Line
: Main (Radio/Tape) Signal Line
: Tape (Rec.) Signal Line



Notes:

1. The circuit shown in (▬) on the conductor indicates printed circuit on the back side of the printed circuit board.
2. The circuit shown in (▬) on the conductor indicates printed circuit on the front side of the printed circuit board.
3. The symbols (●) shown in the circuit board indicate connection points between conductors on the front side and back side of the circuit board.

• **This circuit board diagram may be modified at any time with the development of new technology.**

MEASUREMENTS AND ADJUSTMENTS

■ ALIGNMENT INSTRUCTION

READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

1. Set volume control to maximum.
2. Set band /FM sens. Selector switch to AM or FM/DX.
3. Set Function selector switch to radio or Tape.
4. Set power source voltage to DC3V
5. Set Beat Proof switch to I.
6. Output of signal generator shouldbe no higher than necessary to obtain an output reading.

■AM ALIGNMENT

	BAND	SIGNAL GENERATOR CONNECTIONS	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	ELECTRONIC AC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT POINT (Refer to Fig.1)	REMARKS
		AM-IF ALIGNMENT					
(1)	AM	Fashion a loop of several turns of wire and radiate The signal into loop ANT. of receiver.	455kHz 30% Mod. at 400Hz	Point of non-interference.(on/ about 600kHz	Headphone Jack(32Ω) (Refer to Fig.5)	**T3**(AM IFT)	Adjust for maximum output.
		AM-RF ALIGNMENT					
(2)	AM	〃	511kHz (f min)	Tuning capacitor fully closed.	〃	**L4**(AM OSC Coil)	Adjust for maximum output.
(3)	AM	〃	1,670 kHz (f max)	Tuning capacitor fully open.	〃	**CT1-4**(AM OSC Trimmer)	〃
(4)	AM	〃	550kHz	Tune to signal	〃	(*1)**L3**(AM ANT Coil)	Adjust for maximum output.Adjust L3 by moving coil along ferrite core.
(5)	AM	〃	1,500kHz	〃	〃	**CT1-3**(AM ANT Trimmer)	Adjust for maximum output. Repeat steps (2)~(5).

(*1) Fix antenna coil with wax after completing alignment.

■FM ALIGNMENT

	BAND	SIGNAL GENERATOR or IF SWEEP GENERATOR CONNECTIONS	SIGNAL GENERATOR or IF SWEEP GENERATOR FREQUENCY	RADIO DIAL SETTING	ELECTRONIC AC VOLTMETER or OSCILLOSCOPE	ADJUSTMENT POINT (Refer to Fig.1)	REMARKS
		FM-IF ALIGNMENT					
(1)	FM	High side thru. 0.001μF to test point **TP2.** Negative side to test point **TP1.**	10.7MHz (SWP)	Point of non-interference.(on/ about 90 MHz)	Connect vert. amp.of scope to test point**TP6** Negative side to test point**TP5**	**T1**(FM 1st IFT)	Wave form is shown in Fig.2
(2)	FM	〃	〃	〃	〃	**T2**(FM 2nd IFT)	Wave form is shown in Fig. 3.
		FM-RF ALIGNMENT					
(3)	FM	Connect to test point **TP7** through FM dummy antenna. Negative side to test point **TP1.**	86.8MHz (f min)	Variable capacitor fully closed.	Headphone Jack(32Ω) (Refer to Fig.5)	**L1**(FM OSC Coil)	(*2) Adjust for maximum output.
(4)	FM		109.2MHz (f max)	Variable capacitor fully open.	〃	**CT1-1**(FM OSC Trimmer)	〃
(5)	FM		90MHz	Tune to signal.	〃	**L2**(FM ANT Coil)	〃
(6)	FM		106MHz	〃	〃	**CT1-2**(FM ANT Trimmer)	(*)Adjust for maximum output.Repeat steps (3)~(6)

(*2) Three output responses will be present ; proper tuning is the center frequency.

FM SEPARATION ALIGNMENT

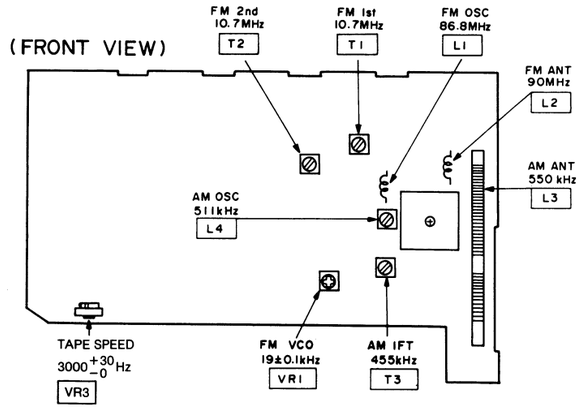
	FM SIGNAL GENERATOR SOURCE CONNECTION	ELECTRONIC FREQUENCY COUNTER	ADJUSTMENT POINT	SPECIFICATION	REMARKS
(7)	98MHz,60 dB(CW) Connect to test point**TP7**through FM dummy antenna. Negative side to test point**TP1.**	**TP4**.....(+) **TP5**.....(-)	VR1 (Refer to Fig.1)	19kHz	Adjust VR1 for 19kHz (±100Hz) reading on electronics counter.

■TAPE DECK ALIGNMENT

	ITEM	TEST TAPE	MEASUREMENT POINT	ADJUSTMENT POINT	PROCEDURE
(1)	Azimuth	QZZCFM (8kHz,-20 dB)	Electronic AC Voltmeter to Headphone Jack(32Ω) (Refer to Fig.5)	Azimuth adjustment screw (Refer to Fig.4)	Adjust the azimuth adjustment screw during repeated forward and reverse playback to obtain the maximum head azimuth alignment with both channels equal. Then screw-lock the adjustment in place.
(2)	Tape speed	QZZCWAT (3kHz,-10dB)	Electronic Frequency counter to Headphone Jack(32Ω) (Refer to Fig.5)	VR3 (Refer to Fig.1)	Playback the central part of the tape and adjust VR3 so that the tape speed is as follows. $3000\ ^{+30}_{-0}$Hz (Forward & Reverse)

■ ALIGMENT POINTS

* Please refer to Circuit Board and Wiring Connection Diagram for test point locations.



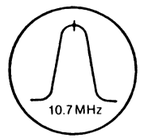


Fig. 2

Fig. 3

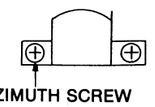


Fig. 4

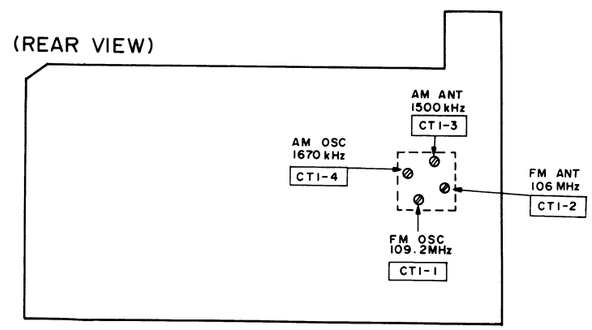


Fig. 1

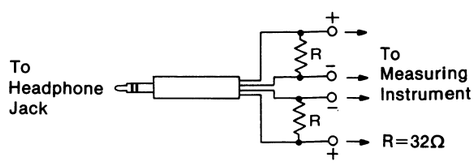
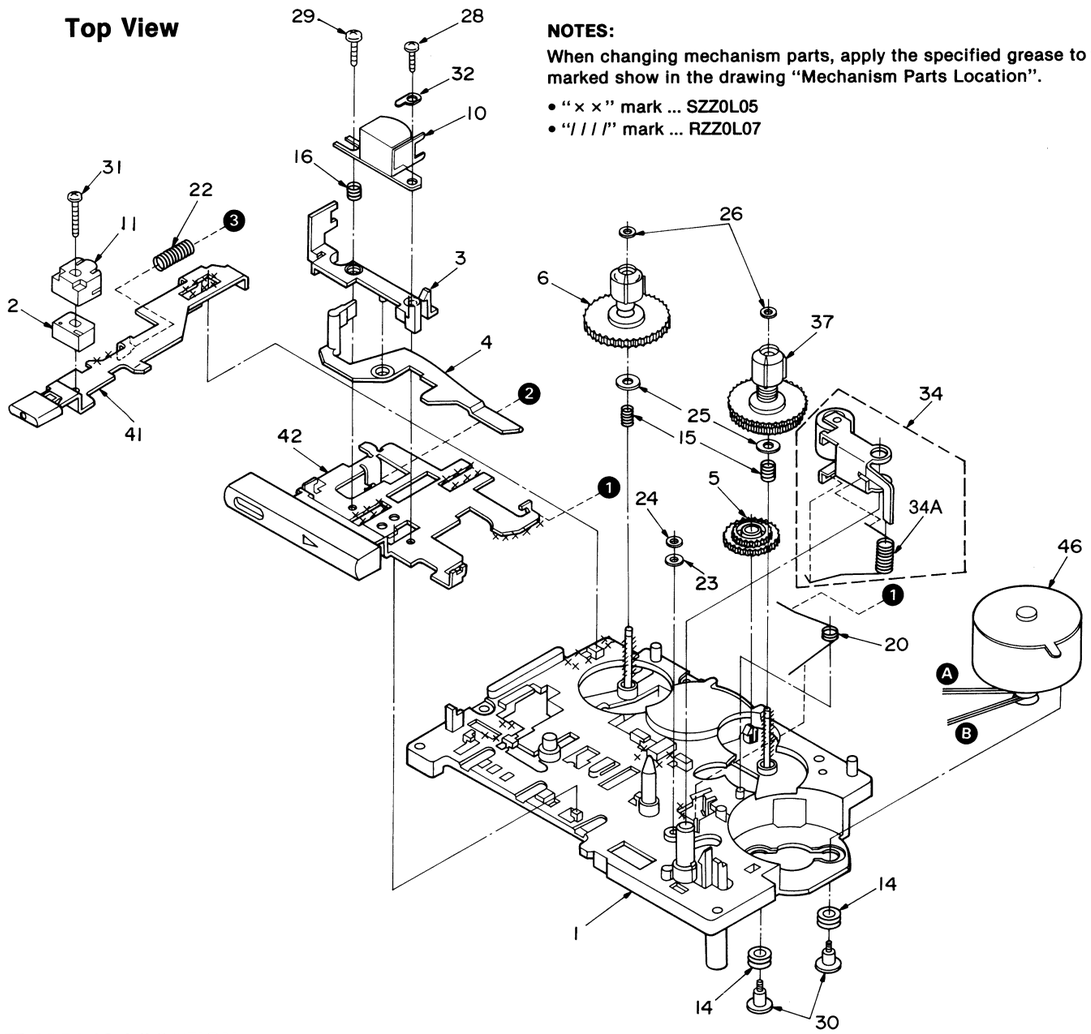


Fig. 5

MECHANISM PARTS LOCATION

Top View

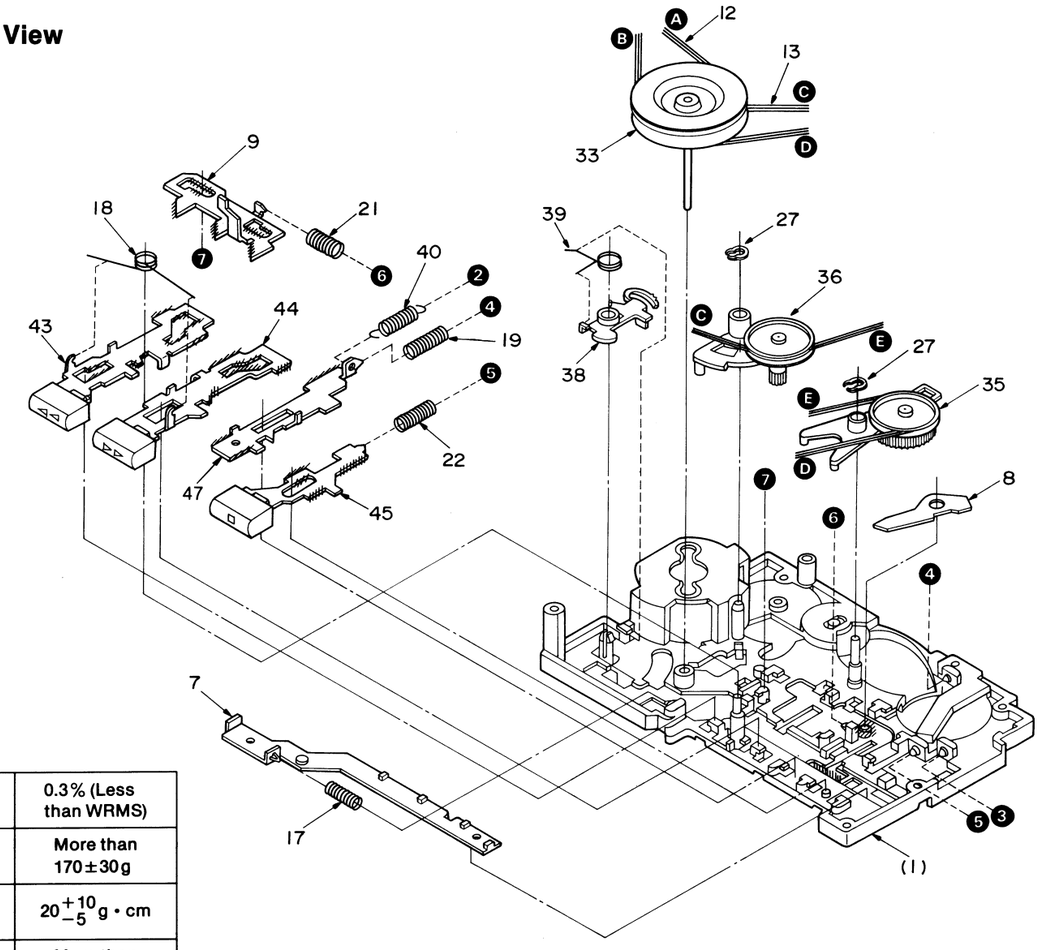


NOTES:

When changing mechanism parts, apply the specified grease to the area marked show in the drawing "Mechanism Parts Location".

- "× ×" mark ... SZZ0L05
- "/ / /" mark ... RZZ0L07

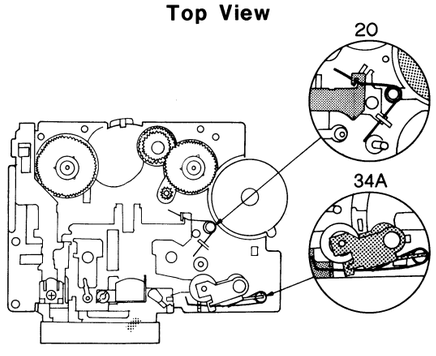
Rear View



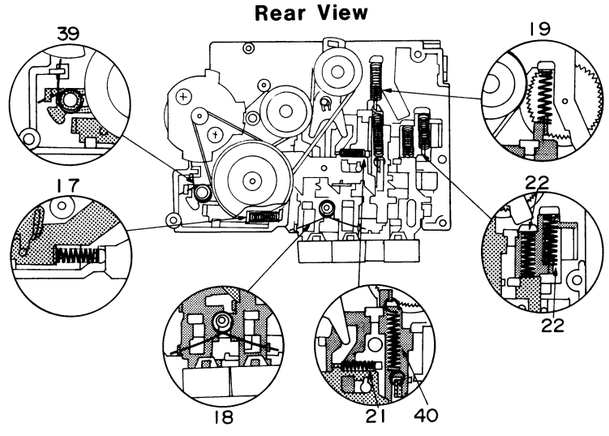
Wow and flutter	0.3% (Less than WRMS)
Pressure of pinch roller	More than 170±30g
Playback torque	20^{+10}_{-5} g • cm
FF/REW torque	More than 50g • cm

■ SPRING LOCATION

Top View

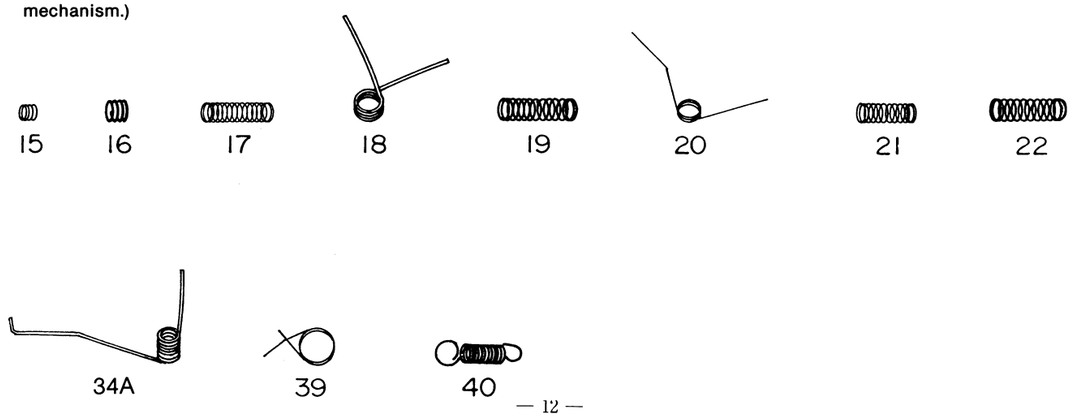


Rear View



■ SPRING ILLUSTRATION

The illustration shows the actual size of the springs so it can be used to check their shapes.
(The illustration shows the springs separated from the mechanism.)



MECHANISM PARTS LIST

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* Bracketed indications in Ref. No. columns specify the area. (Refer to the first page for area.)
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Description
MECHANISM		
CASSETTE DECK		
1	1UAAKSR29ZA	CHASSIS
2	RUEK10ZA	BRACKET, E HEAD
3	RUEK11ZA	BRACKET, R/P HEAD
4	RNLK106ZA	LEVER
5	RNGK34ZA	GEAR
6	RDMK5ZA	REEL TABLE
7	RNRK74ZA	ROD
8	RNLK108ZA	LEVER
9	RNRK80ZA	ROD
10	RJH4C55GZAI	R/P HEAD
11	RJH2C25XZDG	E.HEAD
12	RDVK35ZA	BELT
13	RDVK36ZA	BELT
14	RHG5065ZA	RUBBER
15	RUQK50ZA	COIL SPRING
16	RUQK29ZA	SPRING
17	RUQK9Z	SPRING
18	RUWK94ZA	SPRING
19	RUQK46ZA	SPRING
20	RUWK96ZA	SPRING
21	RUQK47ZA	SPRING
22	RUQK44ZA	SPRING
23	RNWK2117ZA	WASHER
24	RNWK1718ZA	WASHER
25	RNWK208Z	WASHER
26	QBK92030	WASHER
27	XUEV22VW	E.RING
28	XSN2+6	SCREW
29	XSB2D55	SCREW
30	RFE366ZA	SCREW
31	XSN2+12	SCREW
32	RJTK201ZA	TERMINAL
33	1DWAKSR29ZA	FLYWHEEL
34	1NLAKSR29ZA	PINCHIROLLER
34A	RUWK95ZA	SPRING
35	2NLAKSR29ZA	LEVER
36	3NLAKSR29ZA	LEVER
37	1DMAKSR29ZA	REAL TABLE ASS'Y
38	RNLK104ZA	LEVER
39	RUWK97ZA	SPRING
40	RUDK40ZA	SPRING
41	2NRAKSR29ZA	ROD
42	2UAAKSR29ZA	CHASSIS
43	3NRAKSR29ZA	ROD
44	1NRAKSR29ZA	ROD
45	5NRAKSR29ZA	ROD
46	2JQAKSR29ZA	MOTOR ASS.Y
47	RNRK76ZA	ROD

ELECTRICAL PARTS LIST

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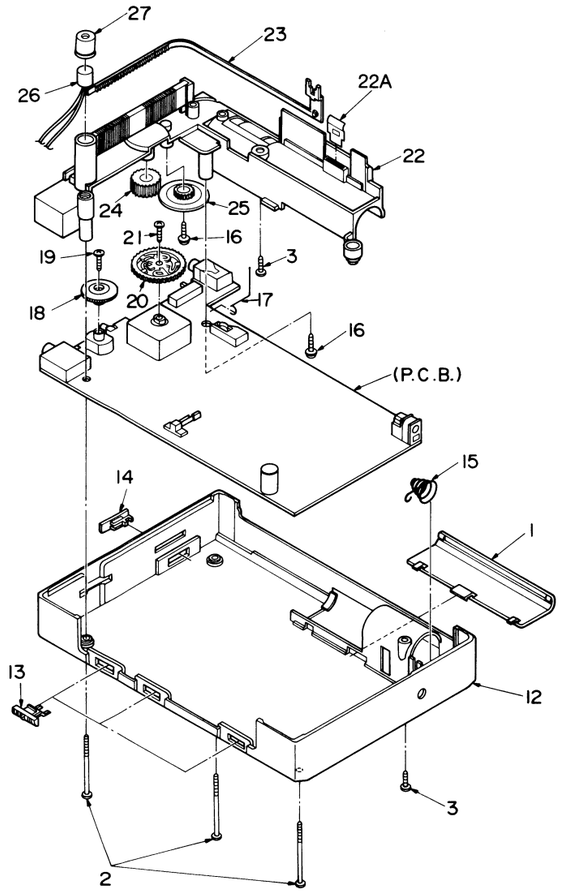
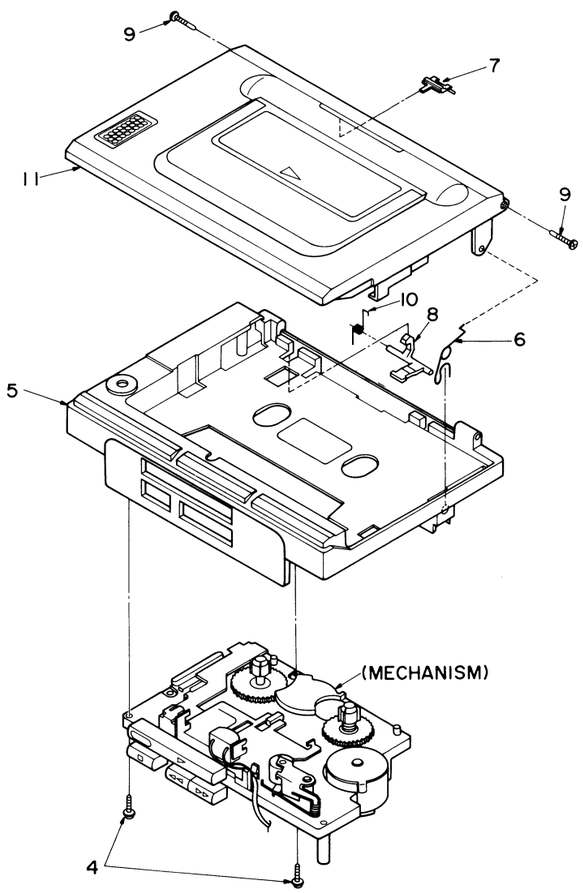
Parts without these indications can be used for all areas.

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC1	AN7205S-T2	I.C, FRONT END
IC2	AN7025S-T2	I.C, IF/DET/OSC
IC3	AN6612S-T2	I.C, MOTOR CONT.
IC4	AN7314S-T2	I.C, PRE AMP
IC5	BA5208AF	I.C, POWER AMP
TRANSISTORS		
Q1	2SK160K5	TRANSISTOR
Q2	2SC2412KRT97	TRANSISTOR
Q3	2SC2412KRT97	TRANSISTOR
Q4	2SB956RTX	TRANSISTOR
DIODES		
D3	RVDDAN212K	DIODE
D4	RVDPR2434D	DIODE
D5	RVDPR2434D	DIODE
VARIABLE RESISTORS		
VR1	EVND4AA00B14	V.R, FM VCO
VR2	EVUBAAT50A14	V.R, VOLUME
VR3	EVND1AA00B52	V.R, TAPE SPEED
VARIABLE CAPACITORS		
VC1	RCV4LC4R2-A	V.C
COILS AND TRANSFOMERS		
L1	RL04Y148	COIL
L2	RL04Y78	COIL
L3	RLF2N21-0	FERRITE ANTENNA
L4	RL02A3	COIL
L5	RLQUR63K	COIL
L6	RLQZ5002	COIL
T1	RLI4A4	I.F.TRANSFORMER
T2	RLI4A4	I.F.TRANSFORMER
T3	RLI2A37	I.F.TRANSFORMER
T4	QLB0195	COIL
COMPONENT COMBINATIONS		
Z1	RXABPWML11Y	COMPONENT COMBINATION
FILTERS		
CF1	QCRZ107MA5	CERAMIC FILTER, 10.7MHZ
CF2	RVFPFA455A	CERAMIC FILTER, 455KHZ
SWITCHES		
S1	RSS3B32Z	SW, BAND
S2	RSS2B38YA-A	SW, FUNCTION
S3	RSS2A38YA	SW, B.P
S4	RSS2A38YA	SW, PAUSE
S7	RSH1A74ZA-U	SW, MOTOR
S8	QSB0303	SW, R/P
OTHERS		
J1	RJJD5S2ZA	JACK, MIC
J2	RJJD3S5Z	JACK, HEADPHONES
J3	RJJB2Z	JACK, DC IN

CABINET PARTS LOCATION AND PARTS LIST





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Ref. No.	Part No.	Description
CABINET AND CHASSIS		
1	RKKK23ZA-0	BATTERY COVER
2	XTN2+25JZ	SCREW
3	XTN2+5J	SCREW
4	XTW2+8S	SCREW
5	RYMXSR29M	FRONT CABINET ASS'Y
6	RUWK99ZA	SPRING
7	RDPK529ZA-0	POINTER
8	RNCK102ZA	LEVER
9	QHQ1362K	SCREW
10	RUWK98ZA	SPRING
11	RYQXSR29M	CASSETTE LID ASS'Y
12	RKFK42ZA-0	REAR CABINET
13	RBDK64ZA-0	KNOB, FUNCTION
14	RBDK65ZA-0	KNOB, BAND
15	RJCK70002ZA	SPRING, BATTERY(-)
16	XTW2+5S	SCREW
17	RJCK93001ZA	BATTERY TERMINAL
18	RBTK17ZA-0	KNOB, VOLUME
19	XQN17+C35	SCREW
20	RDGK5613ZA-1	GEAR, DRUM
21	XQN17+C3	SCREW
22	RZAXSR39M	DIAL CHASSIS ASS'Y
22A	RUSK14ZA	SPRING
23	RDPK530ZA	GEAR BELT
24	RDGK5612ZA	GEAR
25	RBTK16ZA-0	KNOB, TUNING
26	WM60AY	MICROPHONE
27	RHGK714ZA	RUBBER, MICROPHONE

■ RESISTORS & CAPACITORS

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Numbering System of Resistor

Example:

ERD	25	F	J	102
Type	Wattage (1/4W)	Shape	Tolerance	Value (1KΩ)
ERX	2	AN	J	471
Type	Wattage (2W)	Shape	Tolerance	Value (470Ω)

Numbering System of Capacitor

Example:

ECKD	1H	102	Z	F
Type	Voltage (50V)	Value (0.001μF)	Tolerance	Peculiarity
ECEA	50	M	330	
Type	Voltage (50V)	Peculiarity	Value (33μF)	

● Capacity are in microfarads (μF) unless specified otherwise, P = Pico-farads (pF) F = Farads (F).
● Resistance are in ohms (Ω), unless specified otherwise, 1K = 1,000Ω, 1M = 1,000kΩ

Resistor Type		Wattage		Tolerance
ERD	: Carbon	10 : 1/8W	12 : 1/2W	J : ±5%
ERG	: Metal Oxide	14 : 1/4W	25 : 1/4W	F : ±1%
ERQ	: Fuse Type Metal	1A : 1W	18 : 1/8W	G : ±2%
ERX	: Metal Film	S2 : 1/4W	S1 : 1/2W	J : ±5%
ERD L	: Carbon (chip)	2F : 1/4W	50 : 1/2W	K : ±10%
ERO K	: Metal Film (chip)	2A : 2W	3A : 3W	M : ±20%
ERC	: Solid	6G : 1/10W	8G : 1/8W	
ERF	: Incombustible Box-Shaped			
ERM	: Wire-Wound			
RRJ	: Cip Resistor			
ERJ	: Cip Resistor			

Capacitor Type		Voltage		Tolerance
ECE	: Electrolytic	0J : 6.3V	1A : 10V	K : ±10%
ECCD	: Ceramic	1C : 16V	1E : 25V	M : ±20%
ECKD	: Ceramic Capacitor	1H : 50V	1V : 35V	Z : +80 % −20
ECQM	: Poyester	50 : 50V	05 : 50V	
ECQP	: Polypropylene	2H : 500V	2A : 100V	J : ±5%
ECG	: Ceramic	1 : 100V	1J : 63V	G : ±2%
ECEA N	: Non Polar Electrolytic	KC : 400V AC		F : ±1%
QCU	: Ceramic (Chip Type)	KC : 125V AC		C : ±0.25pF
ECUX	: Ceramic (Chip Type)	(UL)		D : ±0.5pF
ECF	: Semiconductor			
EECW	: Liquid electrolyte double layer capacitor			

Ref. No.	Part No.	Value.
RESISTORS(VALUE,WATTAGE)		
R2	RRJ6GCJ560TE	56 1/10
R3	RRJ6GCJ220TE	22 1/10
R4	RRJ6GCJ100TE	10 1/10
R5	RRJ6GCJ334TE	330K 1/10
R6	RRJ6GCJ331TE	330 1/10
R7	RRJ6GCJ471TE	470 1/10
R10	RRJ6GCJ101TE	100 1/10
R11	RRJ6GCJ331TE	330 1/10
R12	RRJ6GCJ182	1.8K 1/10
R16	RRJ6GCJ183TE	18K 1/10
R19	RRJ6GCJ220TE	22 1/10
R20	RRJ6GCJ330	33 1/10
R21	RRJ6GCJ102TE	1K 1/10
R102	RRJ6GCK4R7TE	4.7 1/10
R103	RRJ6GCJ122	1.2K 1/10
R106	RRJ6GCJ331TE	330 1/10
R107	RRJ6GCJ333	33K 1/10
R110	RRJ6GCJ224TE	220K 1/10
R111	RRJ6GCJ103TE	10K 1/10
R115	RRJ6GCJ822	8.2K 1/10
R118	RRJ6GCK3R3TE	3.3 1/10
R119	RRJ6GCJ102TE	1K 1/10
R130	RRJ6GCJ271TE	270 1/10
R202	RRJ6GCK4R7TE	4.7 1/10
R203	RRJ6GCJ122	1.2K 1/10
R206	RRJ6GCJ331TE	330 1/10
R207	RRJ6GCJ333	33K 1/10
R210	RRJ6GCJ224TE	220K 1/10
R211	RRJ6GCJ103TE	10K 1/10
R214	RRJ6GCJ221TE	220 1/10
R215	RRJ6GCJ822	8.2K 1/10
R218	RRJ6GCK3R3TE	3.3 1/10
R219	RRJ6GCJ102TE	1K 1/10
R230	RRJ6GCJ271TE	270 1/10
R303	RRJ6GCJ330	33 1/10
R305	RRJ6GCJ5R6TE	5.6 1/10
R308	RRJ6GCJ225TE	2.2M 1/6
R309	RRJ6GCJ100TE	10 1/10
R315	RRJ6GCJ152	1.5K 1/10
R316	RRJ6GCJ151TE	150 1/10
R317	ERSA10J103T	10K 1/8
R319	RRJ6GCK3R9TE	3.9 1/10
R320	ERSA39JR50T	0.5 1/10
R321	RRJ6GCJ472TE	4.7K 1/10
R322	RRJ6GCJ222TE	2.2K 1/10
RJ3	RRJ6GCJ000TE	0
RJ6	RRJ6GCJ000TE	0
CAPACITORS(VALUE,VOLTAGE)		
C1	RCUV1H101K	100P 50
C2	RCUV1H270KC	27P 50
C3	RCUV1H223ZF	0.022 50
C4	RCUV1H150KC	15P 50
C5	RCUV1H102MB	0.001 50
C6	RCUV1H5R0C	5P 50
C7	RCUV1H220K	22P 50
C8	RCUV1H102MB	0.001 50
C9	RCUV1H223ZF	0.022 50
C10	RCUV1H3R0C	3P 50
C11	RCUV1H6R0D	6P 50
C12	RCUV1H103ZF	0.01 50
C13	RCUV1E223KB	0.022 25
C14	RCUV1E223KB	0.022 25
C15	RCUV1E223KB	0.022 25
C16	RCUV1H271K	270P 50
C17	ECEA0GK471	470 4
C18	RCUV1E223KB	0.022 25
C19	ECEA0GK220L	22 4
C21	ECUV1E473MB	0.047 25
C22	RCUV1H101K	100P 50
C23	RCUV1E223KB	0.022 25
C24	RCUV1H221KB	220P 50
C25	ECEA1HKS010L	1 50
C26	RCUV1E153KB	0.015 25
C27	ECUV1E223KB	0.022 25
C28	RCUV1E153KB	0.015 25
C29	ECEA1HKS2R2	2.2 50
C30	ECUV1E223KB	0.022 25
C31	RCUV1H681KB	680P 50
C32	ECUV1C474ZF	0.47 16
C33	ECEA1VKS3R3L	3.3 35
C34	RCUV1H222KB	0.0022 50
C35	RCBS1H101KB	100P 50
C101	RCUV1C105ZF	1 16
C102	ECUV1C474ZF	0.47 16
C103	RCUV1H222KB	0.0022 50
C104	RCUV1H682KB	0.0068 50
C105	ECEA1HKS010L	1 50
C106	RCUV1H561KB	560P 50
C107	RCUV1H102MB	0.001 50
C108	ECEA1EKK2R2	2.2 25
C109	RCUV1H330K	33P 50
C110	RCUV1E223KB	0.022 25
C111	RCUV1C105ZF	1 16
C112	RCUV1C105ZF	1 16
C115	ECEA1CKS100	10 16
C116	RCUV1H221KB	220P 50
C117	RCUV1C105ZF	1 16
C118	RCUV1H102MB	0.001 50
C120	ECUV1C105ZF	1 16
C121	RCUV1H562MD	0.0056 50
C122	RCUV1H681KB	680P 50
C123	RCUV1C105ZF	1 16
C124	ECEA0GK101L	100 4
C125	ECEA0JKS220	22 6.3
C201	RCUV1C105ZF	1 16
C202	ECUV1C474ZF	0.47 16
C203	RCUV1H222KB	0.0022 50
C204	RCUV1H682KB	0.0068 50
C205	ECEA1HKS010L	1 50
C206	RCUV1H561KB	560P 50
C207	RCUV1H102MB	0.001 50
C208	ECEA1HKS2R2	2.2 50
C209	RCUV1H330K	33P 50
C210	RCUV1E223KB	0.022 25
C211	RCUV1C105ZF	1 16
C212	RCUV1C105ZF	1 16
C215	ECEA1CKS100	10 16
C216	RCUV1H221KB	220P 50
C217	RCUV1C105ZF	1 16
C218	RCUV1H102MB	0.001 50
C220	ECUV1C105ZF	1 16
C221	RCUV1H562MD	0.0056 50
C222	RCUV1H681KB	680P 50

Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.	Ref. No.	Part No.	Value.
C223	RCUV1C105ZF	1 16	C309	ECEA0GK220L	22 4	C319	RCUV1E393KB	0.039 25
C224	ECEA0GK101L	100 4	C310	ECEA0GK221L	220 4	C320	RCUV1E223KB	0.022 25
C225	ECEA0JKS220	22 6.3	C311	RCUV1E223KB	0.022 25	C321	ECEA1HKS010L	1 50
C301	RCUV1H680KC	68P 50	C312	ECEA0GK470	47 4	C322	ECUV1E563KB	0.056 25
C302	ECEA1CK100L	10 16	C313	ECEA0GK470	47 4	C323	ECEA0GKS470L	47 4
C303	RCUV1H102KB	0.001 50	C314	RCUV1C105ZF	1 16	C324	ECEA0GK101L	100 4
C304	ECEA1CK100L	10 16	C315	ECEA0GK471	470 4	C325	RCUV1H103ZF	0.01 50
C305	ECEA1CK100L	10 16	C316	ECEA0GK221L	220 4	C326	ECST0GB106R	10 4
C306	RCUV1E223KB	0.022 25	C317	ECEA1CK100L	10 16	C327	RCUV1H101K	100P 50
C307	RCUV1H103ZF	0.01 50	C318	RCUV1C105ZF	1 16	C328	ECUV1E563KB	0.056 25
						C329	RCUV1H102KB	0.001 50

ACCESSORY AND PACKING PARTS LIST

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Ref. No.	Part No.	Description	Ref. No.	Part No.	Description
PACKING MATERIAL			ACCESSORIES		
P1	RPKK1116ZA	GIFT BOX	A1	RP9531MR	HEADPHONES
P2	RPNK3059ZA	CUSHION	A2	RKEK14ZA-0	BELT HOLDER
P3	RPEK131ZA	PAD	A3 (M)	RQXK4097ZA	INST. MANUAL
P4	RPEK151ZA	SHEET	A3 (MC)	RQXK4104ZA	INST. MANUAL

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